Enterprise Innovation Management Solutions: Connecting the Dots!

CIMdata Webinar Series
11 November 2015

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Agenda

- CIMdata Research Approach and Outcomes - Dr. Suna Polat
- The Sponsors Panel - facilitated by Dr. Ken Versprille

Panel members

- Christian Fernando, Chief Technology Officer, e-Zassi
- Carrie Nauyalis, NPD Solutions Evangelist, Planview
- William Lewis, Director of Marketing, Siemens PLM Software
- Huub Rutten, Vice President of Product Research and Design, Sopheon

- Answer questions from the attendees
Questions?

*Please use the GoToWebinar Question panel*

- Please enter questions in the GoToWebinar Question panel
- We will answer as many questions as time allows...
- Those that can’t be answered live will be answered by email
Suna Polat, Ph.D.
Director, Collaborative Innovation & Social Product Development Practice

- 24+ years of experience in technology and product development, innovation management, implementation of strategic innovation capabilities, including modeling and simulation (M&S), open innovation, knowledge management and social technologies, and driving change and adoption through her career at P&G and consulting practice there after

- Worked with or benchmarked best-in-class companies in diverse industries including consumer goods, material suppliers, IT technology, auto, airline, and pharmaceuticals, to source technology and to identify best practices and new approaches for cultivating innovation and innovation productivity

- Education background: Chemical Engineering
Ken Versprille, Ph.D.

Executive Consultant

• Over 35 years of experience in the application of computer-based solutions for engineering and manufacturing. Research spans geometric design, design collaboration and automation, and PLM standards and openness

• During 15 years at Computervision, became the equivalent of CTO, and was R&D Vice President of core applications. As General Manager of CV-Doors, led the group that introduced and managed the CAD industry’s first geometric kernel business

• Is recognized for publishing the first description of NURBS, the mathematical curve-and-surface formulation, now an international standard in CAD and Computer Graphics

• 2005: received a Lifetime Achievement Award by The CAD Society
Our Mission...

Strategic management consulting for competitive advantage in global markets

CIMdata is the leading independent global strategic management consulting and research authority focused exclusively on the PLM market.

We are dedicated to maximizing our clients’ ability to design and deliver innovative products and services through the application of PLM.
Enterprise innovation suffers from inefficiencies due to disjointed processes, solutions, and data

- Pace of innovation accelerating due to a networked economy
- Product complexity increasing with smart and connected products

Enterprises are hesitant to invest in new solutions

- Because of confusion, uncertainty, and ambiguity caused by differences in terminology, solution approaches, strategies, obstacles, best practices, and benefits claimed from the plethora of innovation solution providers

Problem: Lack of a common innovation system framework and clear terminology to explain how solutions fit into this framework

- Hindering industrial companies in their adoption of solutions and solution providers in expanding their markets
EIM Research Approach

Sponsorship and Research Methodology

- Research first announced at CIMdata’s NA PLM Market Forum (31 Mar, 2015)
- Defined a simple EIM activity system model and solicited solution providers in quadrants 1-3 for sponsorship
- Four sponsors signed up to partially fund the research
  - e-Zassi
  - Planview
  - Siemens PLM Software
  - Sopheon

Sponsors provided to CIMdata
- Thought leadership interviews and briefings
- Demonstrations of their current solutions

CIMdata interviewed Chief innovation executives who
- Lead, promote and measure innovation
- Lead choice of solutions and drive adoption of their use
- Lead Open Innovation

- Keynotes:
  - **Product Development in the Age of the Internet**, Taylor Dawson, Product Evangelists at FirstBuild, GE Appliances
  - **The Third Industrial Revolution: The story of Local Motors and the 3D Printed Car**, John B. "Jay" Rogers, Jr., Co-Founder & CEO, Local Motors
  - **PLM and New Manufacturing in a Networked World**, Oleg Shilovitsky, Entrepreneur, Consultant and Beyond PLM blogger
  - **Unleashing Innovation with External Partners: From a Corporate Initiative to a Global Movement**, Dr. Svetlana Dimovski, Senior Manager for Innovation Excellence, BASF

- Industry and Solution Providers panel discussions
- Discussed improvements to the EIM Framework model as part of the Solution Providers Panel
Mark Your Calendars!

Join the conversation

The next CIMdata “Collaborative Innovation and Product Development” Workshop

Date: 25 May 2016

Location: Biltmore Inn and Suites in Santa Clara, CA

Following the CIMdata High Tech PLM Road Map on May 24
Key Outcomes

The White Paper will be available to download at cimdata.com in December

- Definition(s) for Innovation
- A classification approach to EIM Solutions
- A framework to show how solutions fit with each other
- Clients’ key innovation challenges and concerns
- Effective strategies and approaches to deal with these challenges
- A glossary of EIM terms
Two Definitions of Innovation

New to the market, customers value, but don’t forget the journey

Outcome-based...
Innovation is a product, process, or service new to the market that the customers value.

Journey-based...
Innovation is the definition and realization of a new solution, i.e., a process, product, service, and/or business approach, to a need, issue, or problem that performs better or delivers more value than any previous solution.

“All the journey that would be needed for an idea to become a product or service in the market. Not only the time where we thought about it, but it’s also at the time we have been able to solve all the technical or scientific or business models related issues that would allow us actually to bring that product to the market to the right customers.”
Classification of EIM Solutions

Innovation is a balance of Creativity and Discipline

CLASS 1
Innovation Engagement

Creativity

CLASS 2
Innovation Guidance

Process

CLASS 3
Innovation Delivery
Definition of CLASSES of EIM Solutions

Engagement, Guidance and Delivery

- **CLASS 1 - Innovation Engagement**: Solutions that allow large networks to engage on innovation needs of an enterprise to offer ideas, insights and solutions

- **CLASS 2 - Innovation Guidance**: Solutions that structure and support business strategy, planning and decision making to realize on target and profitable innovation

- **CLASS 3 - Innovation Delivery**: Solutions that support the collaborative creation, management, dissemination, and use of product definition information across the extended enterprise spanning concept through life
Classification of EIM Solutions

A Balance of Creativity and Discipline

CLASS 1
Innovation
Engagement

CLASS 2
Innovation
Guidance

CLASS 3
Innovation
Delivery

Creativity
Process

INNOVATION MANAGEMENT
BRIGHT IDEA
SOCIAL IDEATION
SPONT ILLUSTRATIVE
ENTERPRISE INNOVATION MANAGEMENT
E-ASSIST INNOCENTIVE
CROWDSOURCING

IDEA MANAGEMENT
COLLABORATIVE IDEATION

ENTERPRISE INNOVATION MANAGEMENT
PROGRAM AND PROJECT MANAGEMENT
CA TECHNOLOGIES
INNOVATION LIFECYCLE MANAGEMENT

PROJECT PORTFOLIO MANAGEMENT
ACCOLADE PLANVIEW ENTERPRISE
PPM

PLM
PRODUCT LIFECYCLE MANAGEMENT
PRODUCT LIFECYCLE MANAGEMENT
EIM Framework

How CLASSES of solutions fit with each other
Key Innovation Challenges & Concerns

Based on Interviews with Chief Innovation Officers and Sponsors

- Culture and mindset
  - Difficulty in adopting new ways of working
  - NIH is still around when doing Open Innovation
  - Traditionally top down, but need to add ground-up innovation

- Fragmented processes and systems makes information sharing difficult and slow
  - No single source of truth → Longer cycle times & cannot compare promised versus delivered
  - Battling gigantic MS Excel spreadsheets that are crashing

- Managing ever increasing product complexity
  - Need for modeling and defining product digitally
  - Has to collaborate across the supply chain
Effective Approaches to Deal with Challenges

_Culture change; Goals and Metrics & Early wins (1 of 2)_

- **Embrace the culture change. That’s the only constancy!**
  - Sign up an executive champion who can move people and remove barriers
  - Establish a dedicated team to lead the change
  - Support people by providing training and guidance
    - A network of “ambassadors”

- **Set Goals and Metrics**
  - Start with analytics, help executives make better decisions
  - Quantify current state, address pain points, set goals for the future state
  - Three key metrics: Cycle time; Cost and Value of the innovation portfolio

- **Set time for pilots, but don’t get stuck there**
  - Pilots should be about creating quick, early wins. Have a scale up strategy
  - Keep it simple: No big-bang deployment of solutions – gets too complex, people give up
Effective Approaches to Deal with Challenges

Meaningful conversations and Technology Enablers (2 of 2)

● Create Meaningful Conversations
  ▪ Develop a common framework and terminology

● Technology enablers
  ▪ CLASS I and II solutions offered in the Cloud; makes implementation easier
  ▪ More PLM solution providers are providing cloud solutions
    ● Arena, Autodesk, Oracle, PTC and Siemens PLM Software
  ▪ Clients’ hesitancy to move to public Cloud is limiting advantages of some solutions

● User friendly interfaces are a must
  ▪ Example: Google like search
Conclusions

- Enterprises can no longer afford inefficiencies in their innovation processes due to a demanding innovation environment in a networked economy and increased product complexity.

- Modern EIM solutions can help enterprises to innovate faster and better by making innovation activities more visible and the data more connected across their innovation ecosystem.
  - However, tools themselves are not sufficient.
  - A culture aligned with the new strategies and solutions, and a workforce with the right mindset and skills are just as critical.
The Panel of Research Sponsors

Facilitated by Dr. Ken Versprille

Christian Fernando
Chief Technology Officer
e-Zassi

Carrie Nauyalis
NPD Solutions Evangelist
Planview

William Lewis
Director of Marketing
Siemens PLM Software

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The Role of Siemens PLM Software:
Key investment themes for Teamcenter

Engaged Users
Usability with Active Workspace

Reach more stakeholders with role based, use case driven interaction

Intelligent Models
Systems Driven Product Development

Closed-loop product planning
And virtual validation for complex products

Adaptive System
Platform Innovation

Drive quality, deployability, and extensibility to enable a robust partner ecosystem

Realized Products
Integrated Product Definition

Clearly align the virtual with the physical to streamline upstream and downstream processes
End-to-End Innovation Lifecycle Management from Sopheon: Software, Best Practices and Consultancy

- Strategy vs Execution
- Gap Analysis
- Portfolio Balancing
- Resource Prioritization

- Innovation "Work"
- Business Cases
- Lifecycle Management
- Phase-In Phase-Out
- Process Governance
- Gated Decision-Making

- Innovation Targets & KPIs
- Investment Buckets
- Roadmaps
- Focus Areas

- Market Assessment
- Technology Discovery
- Open Innovation
- Social Collaboration
- Voice of the Customer
- Idea Campaigning
Expanding the Ecosystem of Innovation
Carrie Nauyalis
NPD Solutions Evangelist, Planview
William Lewis

Director of Marketing, Siemens PLM Software

SHIFT FROM SINGLE TO SYSTEM INNOVATION
(Over 50% Innovation at System Level)

Enable Innovation

Clearly planned
Systems of systems
Promote reuse

Manage Complexity and Risk

Manage interactions
Prove and simulate
Consultancy

Best Practice: Process Models, Templates, Reports, Dashboards, Analytics, Interfaces, Data Models, Rules of Governance, Training

Configuration layer

'Process Operating System' Platform

Innovation Management Offering by Sopheon
Q&A

Let’s hear what’s on your mind?
For More Information, Contact...

We look forward to hearing from you

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